CHENBRO

4-Port SCSI Ultra 320 Backplane

User's Manual

80H102209-017

Version A1~A3

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You can also contact Chenbro HQ or branch office for immediate support; contact Information is as following:

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Tel: 886-2-8226-5500	Tel: 31-40-295-2045	Tel: 1-909-947-3200
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Revision History

Date	Modifications
July / 18 / 2008	● **First Release**

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Backplane Specification

Hardware Specification

Host Interface	**Ultra 320(HD68)**
HDD Interface	**SCSI SCA2**
Hot-Swap	**Yes, allows user to replace Hard Disk Drive (HDD) on line**
Display	**LED indicates HDD status (Defined by Chenbro)** **Power LED – Blue (When HDD is present)** **Access LED –Green (When HDD is busy)** **Error indicator – Red (Error when retreating signals)**
Cooling	**Two Fan connectors**
Environment Monitor	**Fan speed and temperature detection**
Connectors	**HD68 x2 (to host & terminator)** **SCA2 x4 (for HDD)** **Standard 4-pin Power connector x 2 (+5V & +12V from power supply)**
Dimensions	**107.8 (Width) x 114.8 (Height) x 2.4 (Thickness) mm**
Material	**FR4 4 layer**

Accommodated Chassis

This backplane can be applied to the Chassis as below:

- ***SR105 / SR107 / SR108 / SR209***
- ***RM31408***

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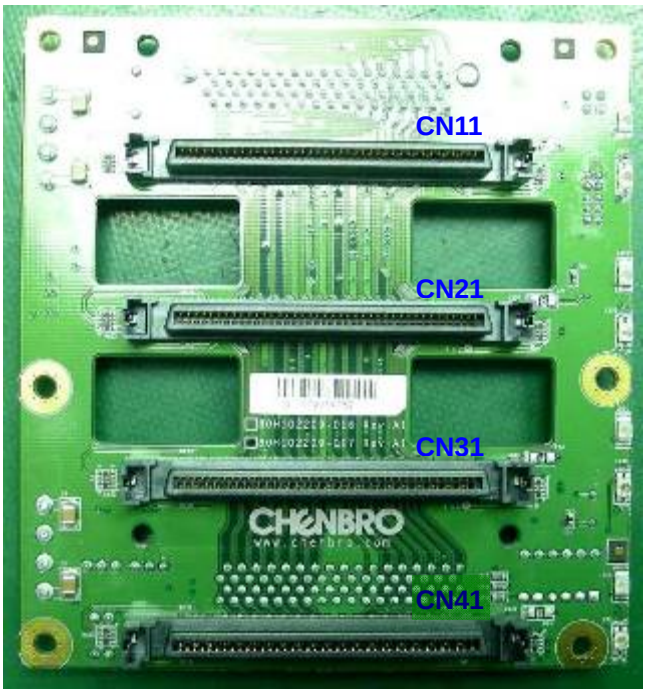
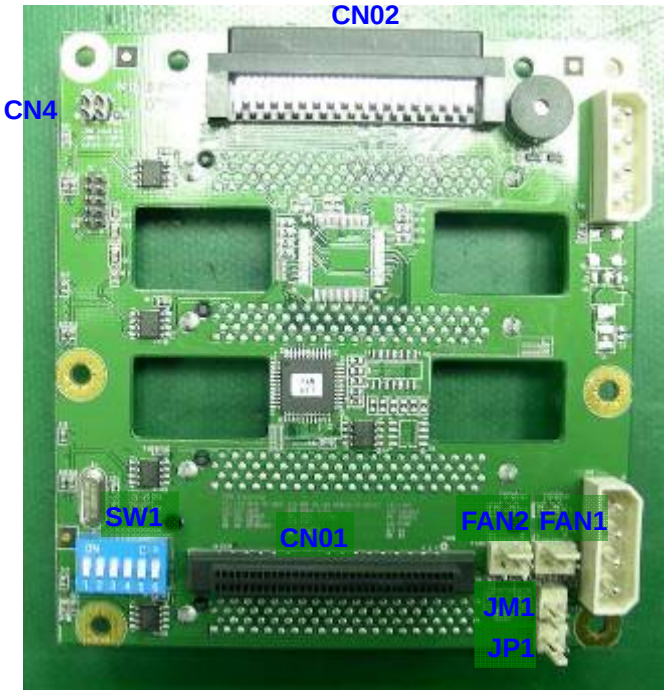
Backplane Layout

Backplane Connectors



Front View (HDD Side)



Rear View (Host Side)

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(1) [CN11 / CN21 / CN31 / CN41] : Connect to SCA2 SCSI HDD

(2) [LD11 / LD21 / LD31 / LD41] : Blue LED Indicate HDD Power

(3) [LD12 / LD22 / LD32 / LD42] : Green LED Indicate HDD Activity

Red LED Indicate HDD Failure

(4) [CN01 / CN02] : Connect to HD68 Host

(5) [CN1 /CN2] : 4-pin Power connectors

(6) [FAN1 / FAN2] : 3-pin Fan connectors

(7) [JP1] : Power Failure Input (From Redundant Power Supply)

(8) [JM1] : Power Failure Alarm Mute Output (to Redundant Power Supply)

(9) [CN4] : Fan / Power / Temperature Fail LED output connector (to Front Panel LED Display)

Pin	Definition	Function
1	Mute (+)	Alarm Mute
2	Mute (-)	
3	Fail LED(+)	System Failure Signal
4	Fail LED(-)	

(10) [SW1] : Function Switch

SW1-1, SW1-2: HDD Spin-Up Setting

SW1-1	SW1-2	Active
Off	Off	Spin-Up Enable
Off	On	Spin-Up on Start command
On	Off	Spin-Up after delay
On	On	Reserved

SW1-3: HDD ID & GEM318 ID Setting

SW1-3	HDD ID
On	ID[8~11,14]
Off	ID[0~3,6]

SW1-4: FAN1 Enable / Disable Setting

SW1-4	HDD ID
On	FAN1 Enable
Off	FAN1 Disable

SW1-5: FAN2 Enable / Disable Setting

SW1-5	HDD ID
On	FAN2 Enable
Off	FAN2 Disable

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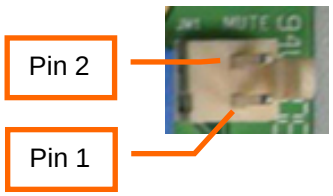
SW1-6: System Alarm Temperature Setting

SW1-6	HDD ID
On	System Alarm Temperature is 65˚C
Off	System Alarm Temperature is 55˚C

Power Supply Alarm Mute Connector Definition

Pin 1: Ground

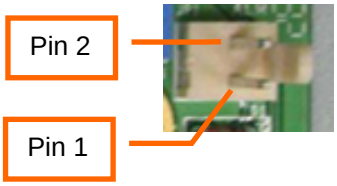
Pin 2: Alarm mute signal output to PSU (Active low)



Power Supply Alarm Signal Connector Definition

Pin 1: Ground

Pin 2: PSU fail signal (TTL) input from PSU (Active low)



	Only redundant PSU come with the failure alarm and alarm mute reset control via signal connector. Make sure the redundant PSU that user applied come with the connectors above.

	This picture shows the standard "2510 2-pin" type PSU alarm signal connectors which fitting Chenbro LED board.	

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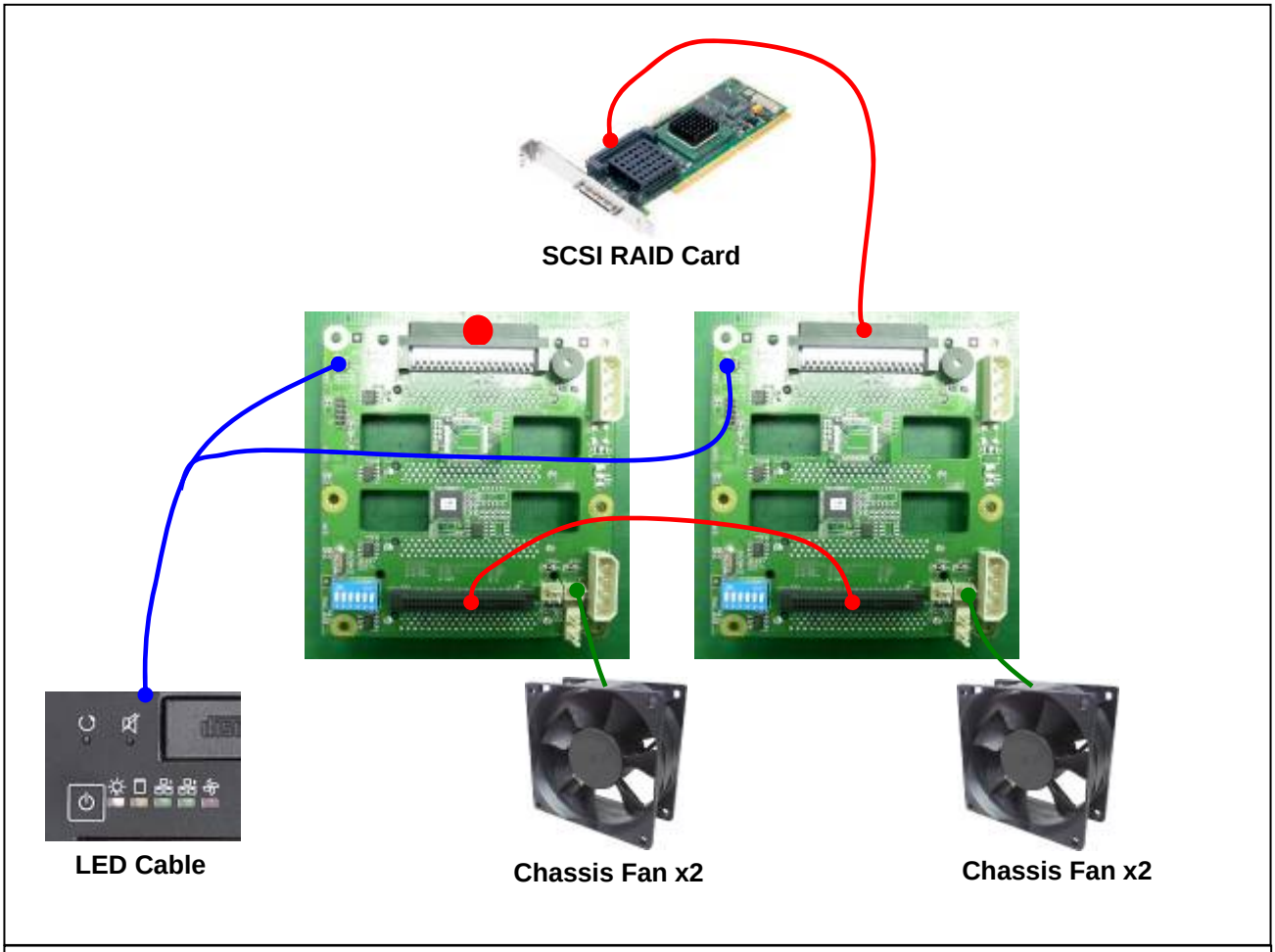
Chassis Assembly Example

See below for the example of how the wiring to be performed.

Example for RM31408 chassis SCSI backplane wiring



SCSI cable (BP to Host Adaptor)

Chassis fans wiring (Connection start from Fan1)

2-pin System Failure LED & Alarm Mute Cables (BP to Front Panel LED Display)

SCSI Terminator

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Ordering Information

Compatible Chassis List

Part No.	Description	Chassis Model
80H102209-017	SCSI Ultra 320, 4-port Backplane	SR209 / SR105 / SR107 / SR108 / RM31408

HDD Cage with Backplane - Bulk Packing Part Number List

Part No.	Description	Chassis Model
84H220910-035	HDD Cage with SCSI Ultra 320, 4-port Backplane	SR209 / SR105
84H210710-040	HDD Cage with SCSI Ultra 320, 4-port Backplane	SR107 / SR108
84H331410-006	HDD Cage with SCSI Ultra 320, 4-port Backplane	RM31408

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